STANDARD DETAILS FOR 3" CONCRETE COVER

T-WALL® RETAINING WALL SYSTEM

DESIGNER



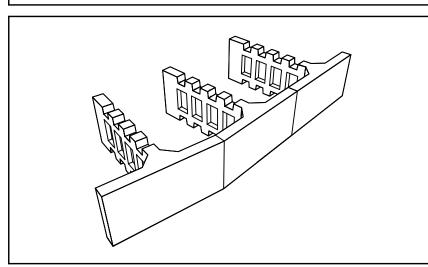
THE NEEL COMPANY

8328-D TRAFORD LANE SPRINGFIELD, VIRGINIA 22152 PH: (703) 913-7858 FX: (703) 913-7859

PRECASTER

OLDCASTLE PRECAST, INC.

5995 SOUTEL DR.
JACKSONVILLE, FL 32219
PH: (904) 768-7081
FX: (904) 768-8428



MISCELLANEOUS NOTES:

I. DESIGNER: THE NEEL COMPANY 8328-D TRAFORD LANE SPRINGFIELD, VA 22152 PH: (703) 913-7858 FX: (703) 913-7859

2. PRECASTER:
OLDCASTLE PRECAST INC.
5995 SOUTEL DR.
JACKSONVILLE, FL 32219
PH: (904) 758-7081

3. MATERIALS SUPPLIED BY PRECASTER:
-PRECAST T-WALL UNITS
-PRECAST SHEAR KEYS
-HORIZONTAL JOINT MATERIAL
-VERTICAL JOINT MATERIAL
-SHEAR KEY JOINT MATERIAL

DESIGN NOTES:

I. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINING WALL VOLUME, METHODS OF CONSTRUCTION, AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO SPEC SECTION 548 - RETAINING WALL SYSTEMS.

2. SOIL PARAMETERS:

-SEE WALL CONTROL DRAWINGS FOR SOIL CHARACTERISTICS
OF FOUNDATION MATERIAL TO BE USED IN THE DESIGN
OF THE WALL SYSTEM. THE CONTRACTOR SHALL PROVIDE
SOIL DESIGN PARAMETERS FOR BACKFILL MATERIAL BASED
ON THE ACTUAL SOIL CHARACTERISTICS UTILIZED AT THE
SITE. THE VALUE OF Φ, C AND GAMMA SHALL BE PROVIDED
IN THE SHOP DRAWINGS

3. FACTORS OF SAFETY:

-OVERTURNING - 2.0

-SLIDING - 1.5

-INTERNAL PULLOUT - 1.5

-BEARING CAPACITY - 2.5

-OVERALL STABILITY - 1.5

4. THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE NEEL COMPANY IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY DESIGN, INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF OTHERS.

5. PANELS WITH CANTILEVERED (EXTENDED) FACE SHALL ONLY BE USED TO AVOID OBSTRUCTIONS AS APPROVED ON THE SHOP DRAWINGS.

MATERIALS NOTES:

I. PRECAST CONCRETE:

-PRECAST T-WALL UNITS - PER SPEC
SECTION 548

-PRECAST SHEAR KEYS - PER SPEC
SECTION 548

2.C.I.P.CONCRETE:
-C.I.P.LEVELING PAD - PER SPEC
SECTION 548
-OTHER C.I.P.CONCRETE - PER SPEC
SECTION 548

3. REINFORCING STEEL:
-PER SPEC SECTION 548

4. JOINT MATERIAL:

-HORIZONTAL JOINT FILLER:

-1/2" x 4" x 5"-0"

-PREFORMED EPDM

-DUROMETER: 80 - 90

-VERTICAL JOINT COVER:

-TENSAR DC4205 OR EQUAL

-12" WIDE x HEIGHT OF JOINT

-GEOCOMPOSITE MEETING REQUIREMENTS

OF SPEC SECTION 548

-SHEAR KEY WRAP:

-1/4" x 8" x 24"

-AVI ASTRO-FOAM AF-250

5. BACKFILL:

-PER SPEC SECTION 548

CONSTRUCTION NOTES.

- I. ALL CONSTRUCTION PROCEDURES SHALL COMPLY WITH SPEC SECTION 548 AND THE "T-WALL CONSTRUCTION MANUAL" (PROVIDED BY THE NEEL COMPANY OR OLDCASTLE PRECAST, INC). IN THE EVENT OF A DISCREPANCY BETWEEN THE SPEC AND THE "T-WALL CONSTRUCTION MANUAL", THE SPEC SHALL CONTROL.
- 2. FOR LOCATION AND ALIGNMENT OF T-WALL STRUCTURE, SEE RETAINING WALL CONTROL PLANS.
- 3.T-WALL STRUCTURES ON CURVES SHALL BE BUILT IN CHORDS AS SHOWN IN THE T-WALL DESIGN DRAWINGS.
- 4. IF MANHOLES OR DROP INLETS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN IN THE T-WALL DESIGN DRAWINGS.
- 5. IF PILES ARE LOCATED WITHIN THE RETAINING WALL VOLUME, THEY SHALL BE DRIVEN BEFORE CONSTRUCTION OF THE T-WALL STRUCTURE.
- 6. T-WALL UNITS SHALL BE PLACED ONE ROW AT A TIME, AND BACKFILLED BEFORE PLACEMENT OF THE NEXT ROW.
- 7. IF A STRUCTURE EXCEEDS 20' IN HEIGHT, THE FINISH GRADE AT THE FACE OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS 20' IN HEIGHT.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER DRAINAGE IN THE VICINITY OF THE WALL DURING CONSTRUCTION. STORMWATER RUNOFF SHALL BE COLLECTED AND DISCHARGED AWAY FROM THE WALL AND THE RETAINING WALL VOLUME.

THIS SYSTEM SHALL NOT BE USED FOR WALLS WITH ACUTE INTERIOR CORNERS IN SALT WATER ENVIRONMENTS.

THIS SYSTEM MAY BE USED IN ALL ENVIRONMENTS.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM
THE NEEL COMPANY T-WALL
(3" COVER)

	Names	Dates	Approve	d By /) 🦳	12/	
Designed By	JMC	10/01/98	State Structures Design Engineer			
Drawn By	CAA	10/01/98	Revision	Sheet No.	Index No.	
Checked By	JMC	10/01/98	04	1 of 20	5010	

THE NEEL COMPANY

8328-D TRAFORD LANE

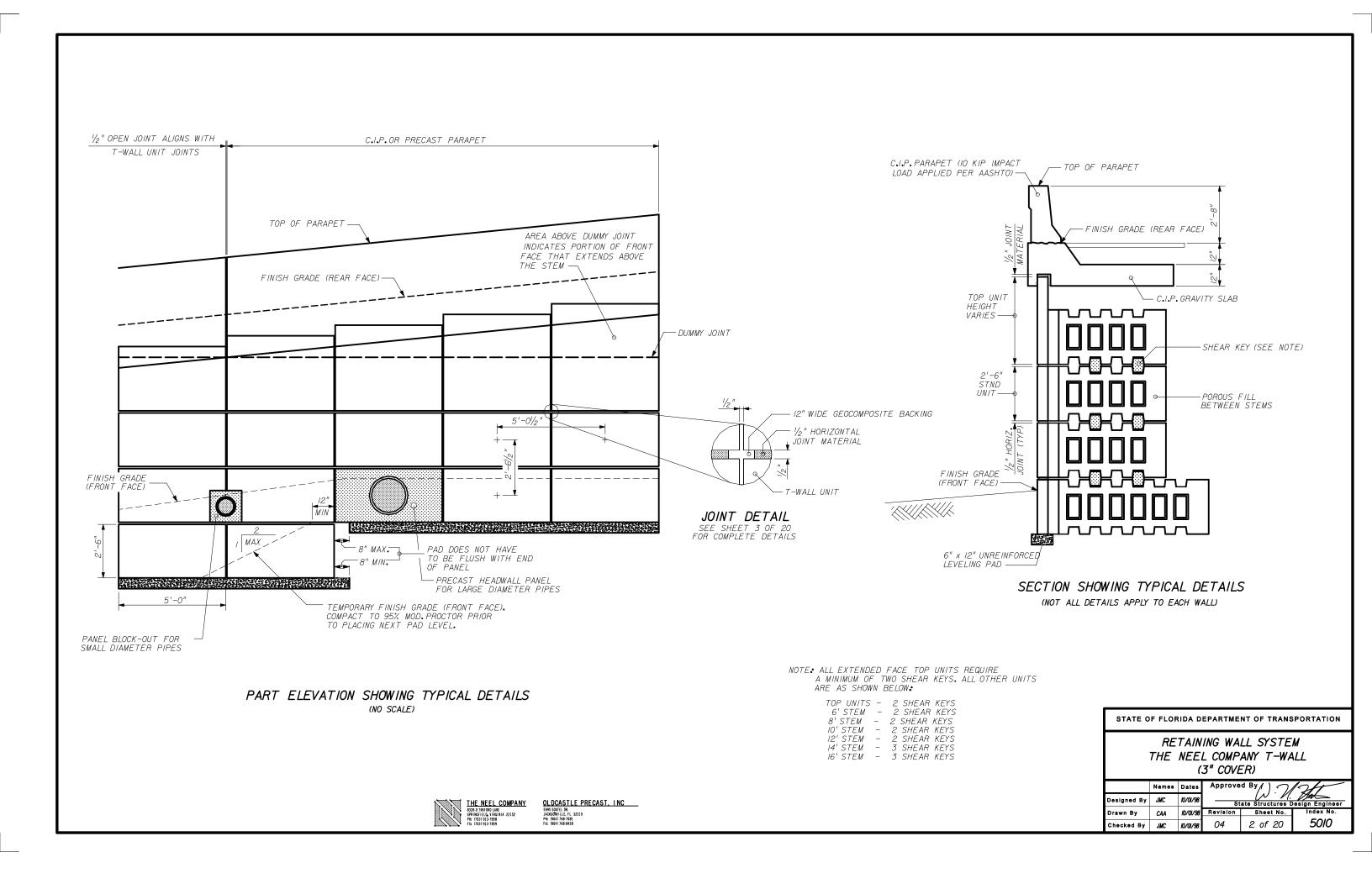
SPRINGFIELD, VIRGINIA 22152

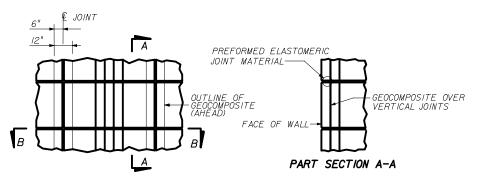
PH: (703) 913-7858

FX: (703) 913-7859

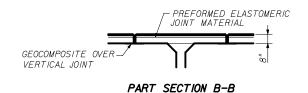
OLDCASTLE PRECAST, INC

5995 SOUTEL DR. JACKSONVILLE, FL 32219 PH: (904) 768-7081 FX: (904) 768-8428





PART ELEVATION - REAR FACE

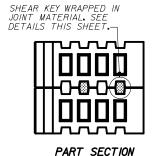


NOTES:

- I. HORIZONTAL JOINT:

 // " x 4" x 5'-0" PREFORMED ELASTOMERIC
 JOINT MATERIAL
- 2. VERTICAL JOINT:
 //2" SPACE
 12" WIDE GEOCOMPOSITE BACKING, CENTERED ABOUT JOINT CENTERLINE.

JOINT MATERIAL DETAILS

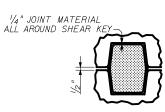


I. SHEAR KEY JOINT MATERIAL: MINIMUM OF ONE 1/4" x 8" x 24" PIECE OF AVI ASTRO-FOAM AF-250 PER SHEAR KEY.

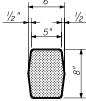
2. JOINT MATERIAL MAY BE ADDED OR REMOVED TO AID IN SHIMMING AND ALIGNING HOWEVER SHEAR KEY MUST FIT SNUG IN THE SHEAR KEY BLOCKOUT WHEN UNIT IS IN ITS FINAL POSITION.

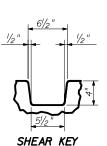
3. MINIMUM OF 2 SHEAR KEYS REQUIRED PER UNIT. SEE NOTES ON SHEET 2 OF 20, 'TYPICAL DETAILS (I)'.

NOTES:



SHEAR KEY / JOINT MATERIAL ARRANGEMENT



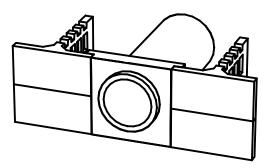


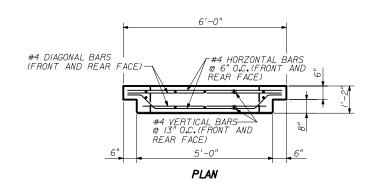
BLOCKOUT DIM's

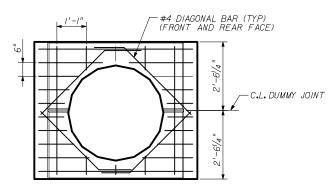
SHEAR KEY DIMENSIONS

SHEAR KEY DETAILS









ELEVATION (FRONT FACE) PRECAST HEADWALL PANEL FOR LARGE DIAMETER PIPES

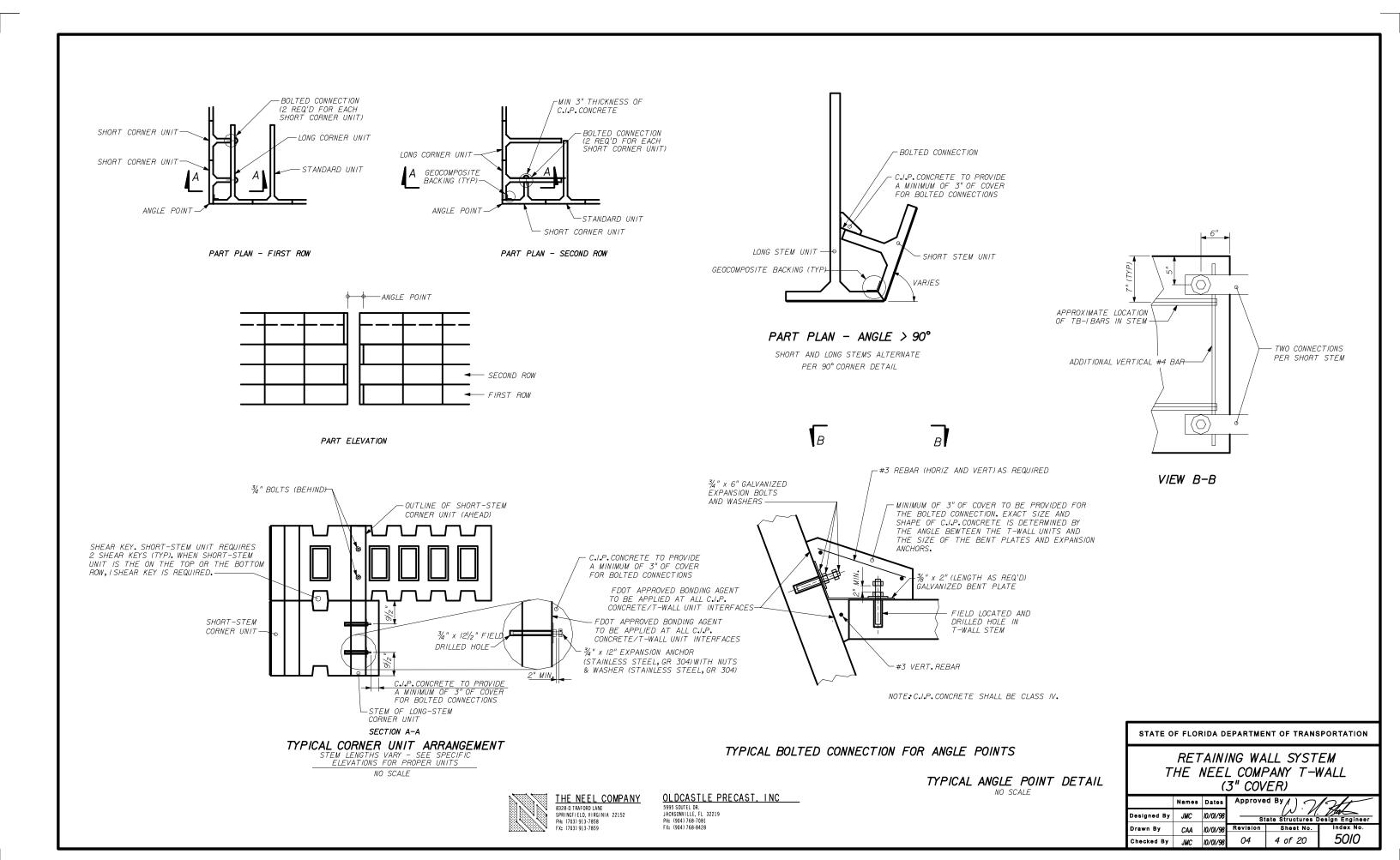
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

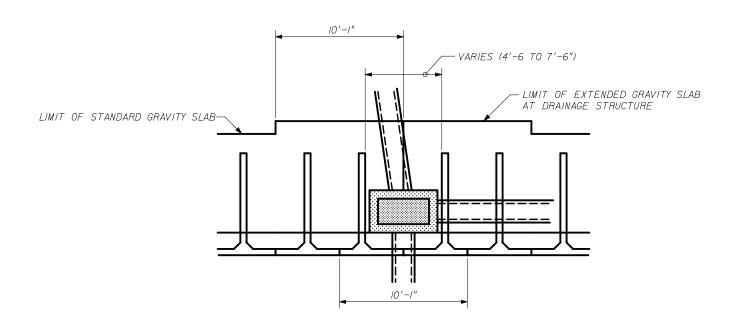
RETAINING WALL SYSTEM THE NEEL COMPANY T-WALL (3" COVER)

	Names	Dates	N. M. Alex			
Designed By	JMC	10/01/98				
Drawn By	CAA	10/01/98	Revision	Sheet No.	Index No.	
Checked By	JMC	10/01/98	04	3 of 20	5010	

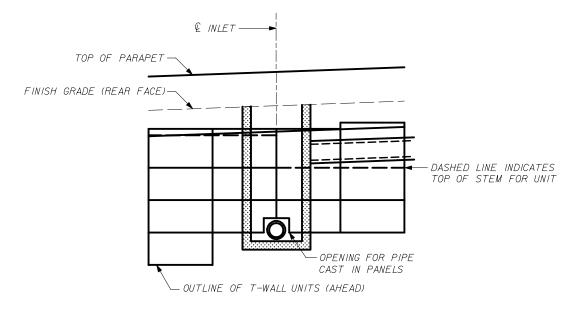
THE NEEL COMPANY
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FR: 1904) 768-8428

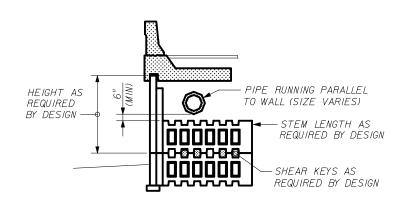




PART PLAN







SECTION
(SHOWING PIPE PARALLEL TO WALL)



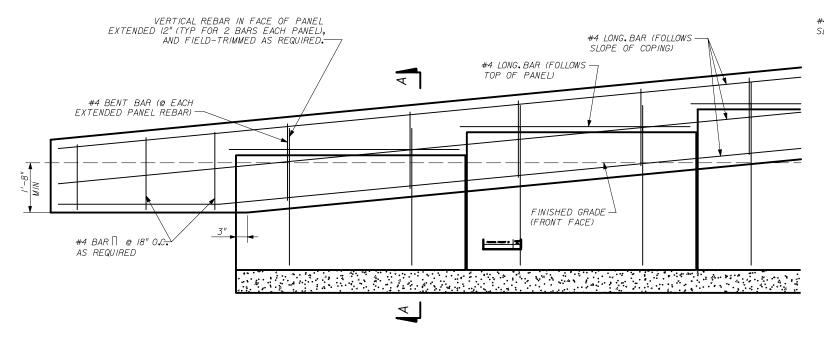
OLDCASTLE PRECAST. INC
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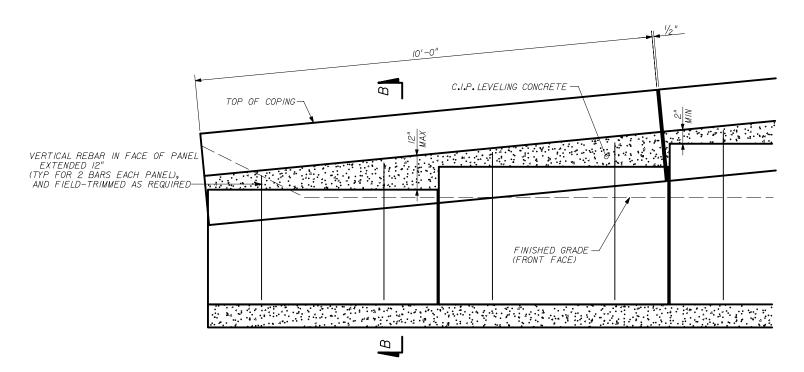
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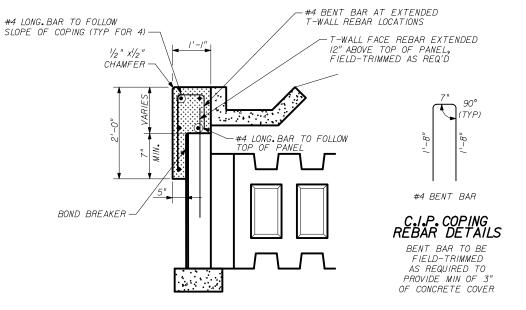
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Checked By	TCN	10/01/98	04	5 of 20	<i>5010</i>		



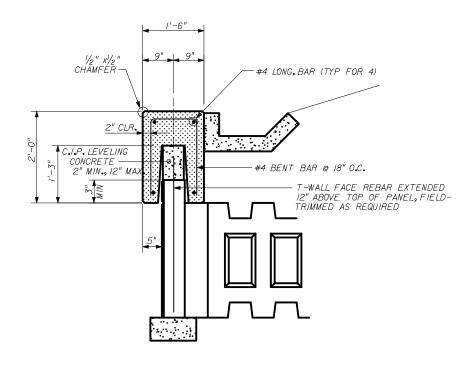
C.I.P. COPING TREATMENT AT BEGINNING/END OF WALLS



PRECAST COPING - PART ELEVATION



SECTION A-A
C.I.P. COPING



SECTION B-B PRECAST COPING

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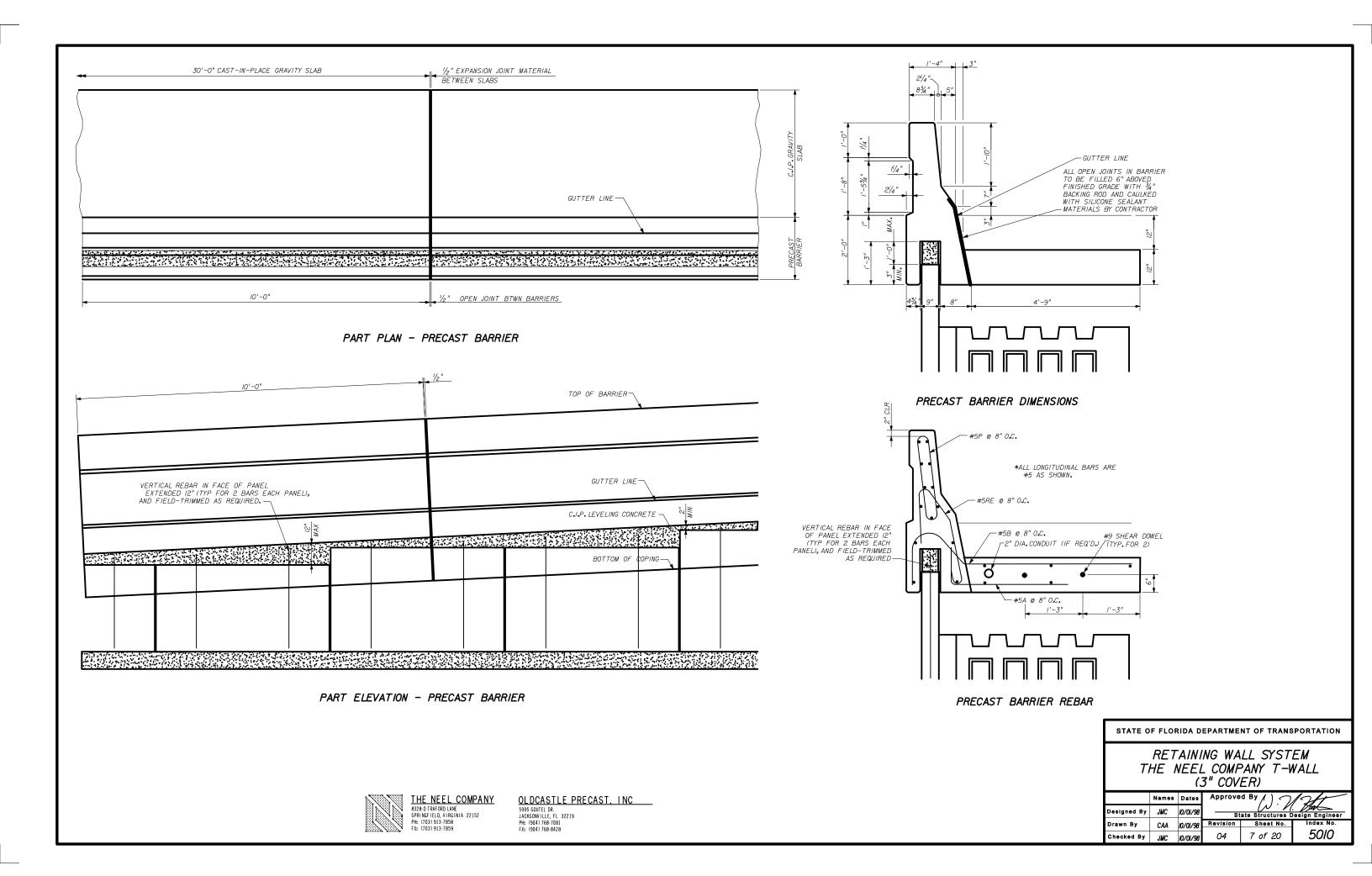
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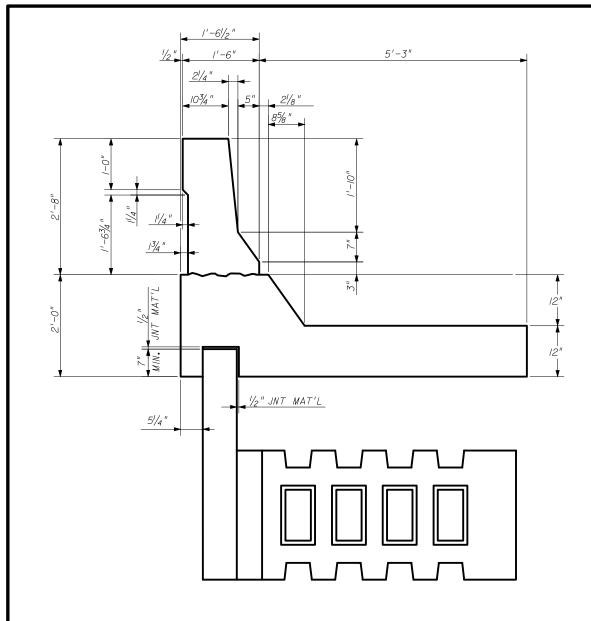
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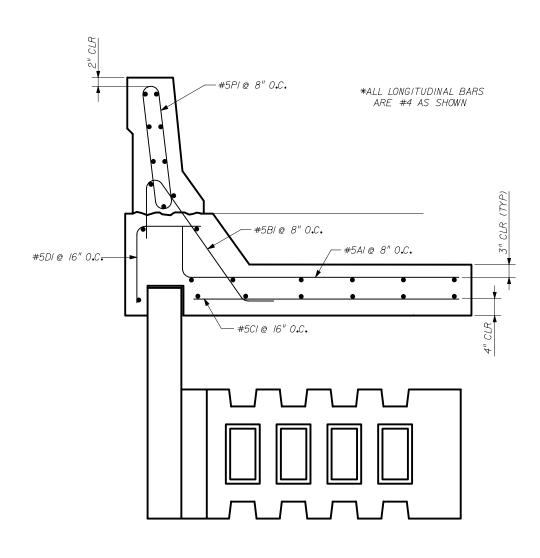


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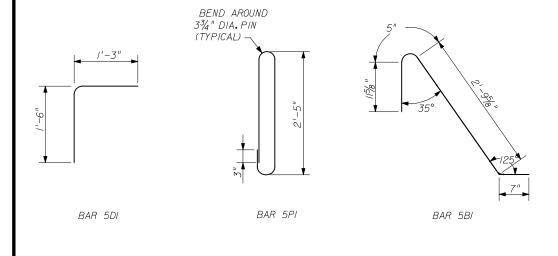


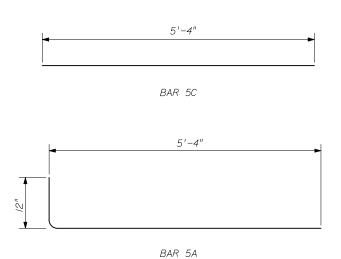


C.I.P. BARRIER AND C.I.P. JUNCTION SLAB REBAR

C.I.P. BARRIER AND C.I.P. JUNCTION SLAB DIMENSIONS

C.I.P. BARRIER REBAR DETAILS





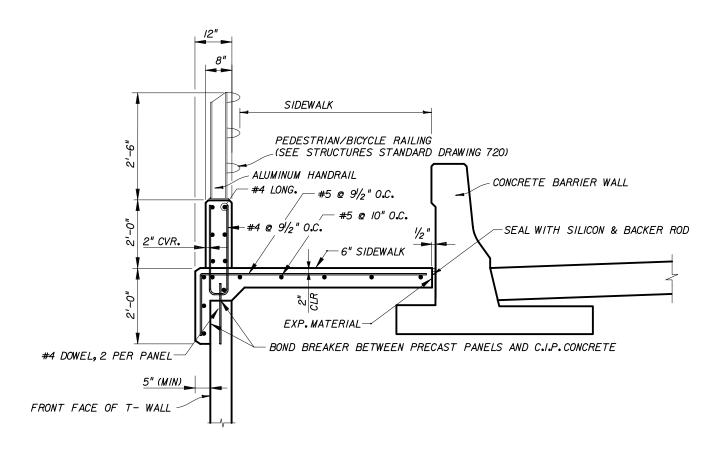


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esigned By	JMC	10/01/98	State Structures Design Engineer				
rawn By	CAA	10/01/98	Revision	Sheet No.	Index No.		
hecked By	JMC	10/01/98	04	8 of 20	<i>5010</i>		



C.I.P. PARAPET DETAIL W/ HANDRAIL

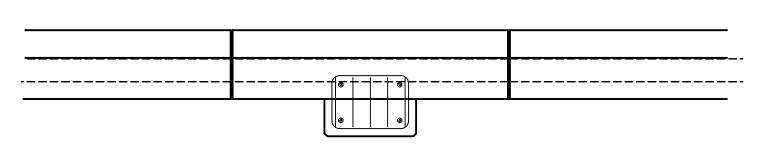
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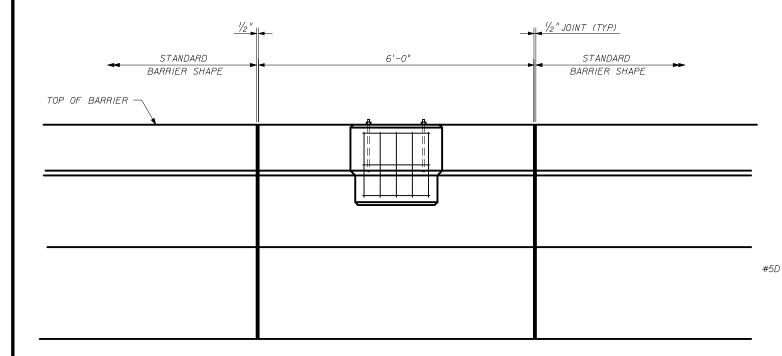
Names Dates Designed By JMC 10/01/98 CAA 10/01/98 *5010* 04 9 of 20 Checked By JMC 10/01/98

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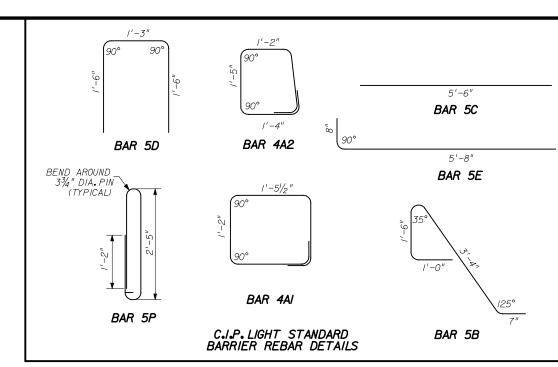
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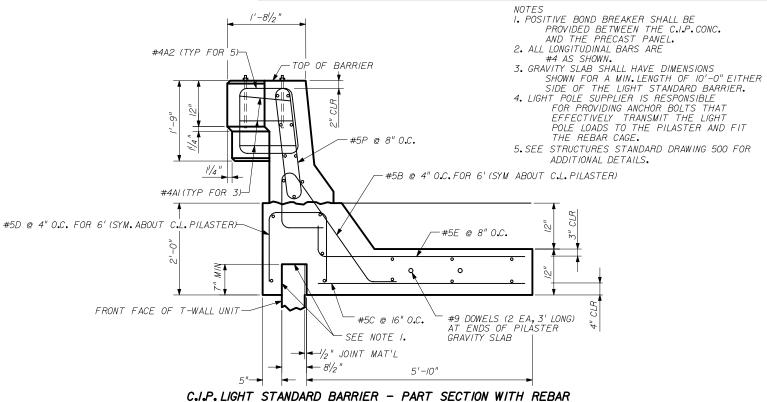


C.J.P. LIGHT STANDARD BARRIER - PART PLAN WITH REBAR (BARRIER AND GRAVITY SLAB REBAR OMITTED FOR CLARITY)



C.J.P. LIGHT STANDARD BARRIER - PART ELEVATION (BARRIER AND GRAVITY SLAB REBAR OMITTED FOR CLARITY)





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